

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 22, 2005, 12:43:17 ; Search time 3 Seconds
(without alignments)
5.539 Million cell updates/sec

Title: US-10-035-958-60
Perfect score: 890
Sequence: 1 AAGTACTGTGTCCGGGTGC.....TMAAAAAAAAAATCATCAA 890

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 12 seqs, 9336 residues

Total number of hits satisfying chosen parameters: 24

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 12 summaries

Database : k035rng:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Query length	DB ID	Description
1	865.7	97.3	909	1 AAC77539	Human ORFX ORF3094
2	858.9	96.5	903	1 AAA15582	Human phospholipid
3	858.9	96.5	903	1 ADK70378	Respiratory diseas
4	858.3	96.4	897	1 AAF94490	Human hydrophobic
5	784.3	88.1	826	1 AAX97660	Extended human sec
6	784.3	88.1	826	1 AAZ42252	Human phosphatidyl
7	664.7	74.7	681	1 AAF94480	Human hydrophobic
C 8	167.2	18.8	303	1 AAS62175	Porcine muscular s
C 9	120.2	13.5	133	1 AAH85783	Human single nucle
10	49.4001	5.6	686	1 ABR09032	Phase-1 Rat CT gen
11	48.8	5.5	1078	1 AAD42238	Corn FT homologue
12	48.2	5.4	1191	1 AAD42243	Corn FT homologue

ALIGNMENTS

RESULT 1
AAC77539
ID AAC77539 standard; cDNA; 909 BP.
XX
XX AAC77539;
AC
XX
DT 08-FEB-2001 (first entry)
XX
DE Human ORFX ORF3094 polynucleotide sequence SEQ ID NO:6187.
KW Human; open reading frame; ORFX; detection; cytosstatic; hepatotropic;
KW vulnerable; antipariatic; antiparkinsonian; nootropic; neuroprotective;
KW anticonvulsant; osteopathic; antiaarthritis; immunosuppressant; cardiant;
KW immunostimulant; thrombolytic; coagulant; vasotropic; antidiabetic;
KW hypotensive; dermatological; immunosuppressive; antiinflammatory;
KW antiviral; antibacterial; antifungal; antirheumatic; antithyroid;

KW antianaemic; gene therapy; cancer; proliferative disorder; hypertension;
KW neurodegenerative disorder; osteoarthritis; graft vs host disease;
KW cardiovascular disease; diabetes mellitus; hypothyroidism; SCID; AIDS;
KW cholesterol ester storage; systemic lupus erythematosus; infection;
KW severe combined immunodeficiency; malaria; autoimmune disorder; asthma;
KW allergy; aplastic anaemia; nocturnal haemoglobinuria; burn; wound;
KW bone damage; cartilage damage; antiinflammatory disease; coagulation;
KW thrombosis; contraceptive; ss.
XX
OS Homo sapiens.
XX
PN WO200058473-A2.
XX
PD 05-OCT-2000.
XX
PF 31-MAR-2000; 2000WO-US008621.
XX
PR 31-MAR-1999; 99US-0127607P.
PR 02-APR-1999; 99US-0127636P.
PR 05-APR-1999; 99US-0127728P.
PR 30-MAR-2000; 2000US-00540763.
XX
PA (CURA-) CURAGEN CORP.
XX
PI Shimkets RA, Leach M;
XX
DR WPI; 2000-602362/57.
DR P-PSDB; AAB43330.
XX
PT Novel nucleic acids and peptides derived from open reading frame X,
PT useful for treating e.g. cancers, proliferative disorders,
PT neurodegenerative disorders and cardiovascular disease.
XX
PS Claim 5; Page 5369-5370; 5507bp; English.
XX
CC AAC74446 to AAC77606 encode the proteins given in AAB40237 to AAB43397,
CC which represent the human ORFX open reading frames 1 to 3161. The ORFX
CC sequences have activities such as: cytosstatic; hepatotropic; vulnerary;
CC antipariatic; antiparkinsonian; nootropic; neuroprotective; osteopathic;
CC anticonvulsant; antiaarthritis; immunosuppressant; immunostimulant;
CC cardiant; thrombolytic; coagulant; vasotropic; antidiabetic; hypotensive;
CC dermatological; immunosuppressive; antiinflammatory; antibacterial;
CC antiviral; antifungal; antirheumatic; antithyroid; and antianaemic. The
CC sequences can be used for determining the presence of or predisposition
CC to, or preventing or treating pathological conditions associated with an
CC ORFX-associated disorder. The nucleic acids can be used to express ORFX
CC proteins in gene therapy vectors. The proteins and nucleic acids may be
CC used to treat cancers, proliferative disorders, neurodegenerative
CC disorders, osteoarthritis, graft vs host disease, cardiovascular disease,
CC diabetes mellitus, hypertension, hypothyroidism, cholesterol ester
CC storage, systemic lupus erythematosus, severe combined immunodeficiency
CC (SCID), AIDS, viral, bacterial or fungal infection, malaria, autoimmune
CC disorders, asthma, allergies, aplastic anaemia, burns, wounds, bone and
CC cartilage damage, nocturnal haemoglobinuria, antiinflammatory disease; to
CC enhance coagulation; to inhibit thrombosis; and as a contraceptive
XX
SQ Sequence 909 BP; 232 A; 254 C; 236 G; 186 T; 0 U; 1 Other;
XX
Query Match 97.3%; Score 865.7; DB 1; Length 909;
Best Local Similarity 99.0%; Pred. No. 0;
Matches 881; Conservative 0; Mismatches 8; Indels 1; Gaps 1;
QY 1 AAGTACTGTGTCCGGGTGCTGACTGATTAGTCGCGAGCCCTGGAAGCTGCTGTCC 60
DB 12 AAGTACTGTGTCCGGGTGCTGACTGATTGCTGCGAGCCCTGGAAGCTGCTTTC 71
QY 61 TTCTCCCTGTGCTTAACCAAGAGTGCCCATGGTTGACAAATGAGGCTGTACACAGACG 120
DB 72 TTCTCCCTGTGCTTAACCAAGAGTGCCCATGGTTGACAAATGAGGCTGTACACAGACG 131
QY 121 ACTGTTACTGGGTCTCATGATGCTGTCACTGAGACGAGATGAGAACAGCCCGTGTGC 180
DB 132 ACTGTTACTGGGTCTCATGATGCTGTCACTGAGACGAGATGAGAACAGCCCGTGTGC 191

QY 181 CCATGAGGCCCTTTGGACGAGACACCCCTTTTGGCCAGGGCCCTTGAAGTTTCTACCC 240
Db 192 CCATGAGGCCCTTTGGACGAGACACCCCTTTTGGCCAGGGCCCTTGAAGTTTCTACCC 251
QY 241 AGAGTTGGGGAACATTGGCTGCAAGTGTCTTCTGATTGTAACTAACAAGAGAT 300
Db 252 AGAGTTGGGGAACATTGGCTGCAAGTGTCTTCTGATTGTAACTAACAAGAGAT 311
QY 301 CACCTCTGATGAGAGCCGATAGTCAAGTCCCGGGGCCCTGAGCGGCCAACCCTATAT 360
Db 312 CACCTCTGATGAGAGCCGATAGTCAAGTCCCGGGGCCCTGAGCGGCCAACCCTATAT 371
QY 361 CCTGTGATGATGATCCAGATGCCCTTAGACAGACGAACCCAGACAGATTCTGAG 420
Db 372 CCTGTGATGATGATCCAGATGCCCTTAGACAGACGAACCCAGACAGATTCTGAG 431
QY 421 ACATTGGCTGTAAACAGATATCAAGGGCGCCGACCTGAAGAAAGGAAGATTCAAGGCCA 480
Db 432 ACATTGGCTGTAAACAGATATCAAGGGCGCCGACCTGAAGAAAGGAAGATTCAAGGCCA 491
QY 481 GGAGTTATCAGCCTTACAGAGCTCCCTCCCAACCGGACACAGTGGCTTCCATCGCTACCA 540
Db 492 GGAGTTATCAGCCTTACAGAGCTCCCTCCCAACCGGACACAGTGGCTTCCATCGCTACCA 551
QY 541 GTTCTTGTCTATCTTCAAGAAAGAAAGTCTCTCTCTCTCCCAAGAAACAACAAC 600
Db 552 GTTCTTGTCTATCTTCAAGAAAGAAAGTCTCTCTCTCTCCCAAGAAACAACAAC 611
QY 601 TCGAGGCTTTGAAATGAGACAGATTTCTGAACCGCTTCCACTGGGGGAACCTGAAGC 660
Db 612 TCGAGGCTTTGAAATGAGACAGATTTCTGAACCGCTTCCACTGGGGGAACCTGAAGC 671
QY 661 AAGCACCAGTTTCATGACCCAGAACTAACAGAGCTCAACCAACCTCCAGGCTCCAGAGG 720
Db 672 AAGCACCAGTTTCATGACCCAGAACTAACAGAGCTCAACCAACCTCCAGGCTCCAGAGG 731
QY 721 AAGGCCAGCGAGCCCAAGCAC-AAAAACAGGACAGATAGCTGCTGCTAGATAGCCGG 779
Db 732 AAGGCCAGCGAGCCCAAGCACAAAAACAGGCGAGATAGCTGCTGCTAGATAGCCGG 791
QY 780 CTTTGCCATCCGGGATGAGCCCACTGCTCAACCAACGATGTGGGTATGAAACCCC 839
Db 792 CTTTGCCATCCGGGATGAGCCCACTGCTCAACCAACGATGTGGGTATGAAACCCC 851
QY 840 CTCTGGATACAGAACCCCTTTCTTTCCAAATTAAAAAAATCATCAA 889
Db 852 CTCTGGATACAGAACCCCTTTCTTTCCAAATTAAAAAAATCATCCA 901

RESULT 2
AAA15582
ID AAA15582 standard; cDNA; 903 BP.
XX AC AAA15582;
XX DT 01-AUG-2000 (first entry)
XX DE Human phospholipid binding protein 2, PLBP2 gene.
XX KW Human; phospholipid binding protein; PLBP2; foetal development disorder; reproduction disorder; cell proliferation disorder; immune response; autoimmune disorder; AIDS; infertility; cytostatic; immunosuppressive; gene therapy; hereditary neuropathy; phosphatidylethanolamine binding protein D1; PE-BP D1; ss.
OS Homo sapiens.
XX
XX
FH Key Location/Qualifiers
FT CDS 88..771
FT /*tag= a
FT /product= "Human PLBP2"
XX

PN US6063767-A.
XX
PD 16-MAY-2000.
XX
PF 09-DEC-1998; 98US-00208718.
PR 28-OCT-1997; 97US-00958820.
XX
PA (INCY-) INCYTE PHARM INC.
PI Corley NC, Shah P, Lal P, Hillman JL;
XX
DR WPI; 2000-375529/32.
DR P-PSDB; AAY94263.
XX
PT New purified phospholipid binding proteins 1 and 2 useful for diagnosing, treating or preventing diseases disorders associated with fetal development, reproduction, cell proliferation, and the immune response.
PT
XX
PS Example 5; Fig 2; 37pp; English.
XX
CC The present sequence is the phospholipid binding protein 2 (PLBP2) gene. This gene is expressed in lung, prostate and heart tissues. Also, the protein is expressed in foetal tumour tissues. PLBP2 may be used for the diagnosis, prevention, or treatment of disorders associated with foetal development (e.g. hereditary neuropathies), reproduction (e.g. infertility), cell proliferation (e.g. cancers), and the immune response (AIDS). PLBP2 antibodies may also be developed for potential drug screening or to quantitate PLBP2 gene expression in biopsied tissues. The CC PLBP2 gene may be administered for gene therapy of disorders associated with PLBP2. PLBP2 has high homology with the phosphatidylethanolamine CC binding protein D1, PE-BP D1, of Onchocerca volvulus. PE-BP D1 is thought CC to play a role in transport or signal mechanisms between membranes and CC the cytoplasm
XX
SQ Sequence 903 BP; 222 A; 251 C; 242 G; 188 T; 0 U; 0 Other;

Query Match 96.5%; Score 858.9; DB 1; Length 903;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 873; Conservative 0; Mismatches 6; Indels 1; Gaps 1;
QY 2 AGTACTGTGTCCGGGTGGTGGACTGGATTAGCTGCGGAGCCCTGGAAGCTGCTGTCT 61
Db 1 AGTACTGTGTCCGGGTGGTGGACTGGATTAGCTGCGGAGCCCTGGAAGCTGCTGTCT 60
QY 62 TCTCCCTGTGCTTAACAGAGGTGCCATGGGTGGACAATGAGGCTGTCAACAGCA 121
Db 61 TCTCCCTGTGCTTAACAGAGGTGCCATGGGTGGACAATGAGGCTGTCAACAGCA 120
QY 122 CTGTTACTGGGTCTCATGATGTGTCTACTGAGACGAGATGAGAACAGCCCGTGTGCC 181
Db 121 CTGTTACTGGGTCTCATGATGTGTCTACTGAGACGAGATGAGAACAGCCCGTGTGCC 180
QY 182 CATGAGGCCCTCTTGGACGAGACACCCCTCTTTTGGCAGGGCCCTTGAAGTTTCTACCCA 241
Db 181 CATGAGGCCCTCTTGGACGAGACACCCCTCTTTTGGCAGGGCCCTTGAAGTTTCTACCCA 240
QY 242 GAGTTGGGGAACATTGGCTGCAAGGTTGTTCTGATTTGTAACAATACTACAGACAAGATC 301
Db 241 GAGTTGGGGAACATTGGCTGCAAGGTTGTTCTGATTTGTAACAATACTACAGACAAGATC 300
QY 302 ACCTCCTGATGAGAGCCGATAGTCAAGTTCGCCGGGGCCGTGAGCGGCCAACCTATATC 361
Db 301 ACCTCCTGATGAGAGCCGATAGTCAAGTTCGCCGGGGCCGTGAGCGGCCAACCTATATC 360
QY 362 CTGTGATGTGATCCAGATGCCCTTAGACAGACGAACCCAGACAGATTCTGAGAGA 421
Db 361 CTGTGATGTGATCCAGATGCCCTTAGACAGACGAACCCAGACAGATTCTGAGAGA 420
QY 422 CATTTGGCTGTAAACAGATATCAAGGGCGCCGACCTGAAGAAAGGAAGATTCAAGGCCAG 481
Db 421 CATTTGGCTGTAAACAGATATCAAGGGCGCCGACCTGAAGAAAGGAAGATTCAAGGCCAG 480

QY	482	GAGTTATCAGCCTTACCAGGCTCCCTCCCCACCGGCACACAGTGGCTTCCATCGCTACCAG	541
Db	481	GAGTTATCAGCCTTACCAGGCTCCCTCCCCACCGGCACACAGTGGCTTCCATCGCTACCAG	540
QY	542	TTCTTTGTCTATCTTCAGGAAGGAAAAGTCATCTCTCTCTCCCTCCCAAGGAAAACAAAAC	601
Db	541	TTCTTTGTCTATCTTCAGGAAGGAAAAGTCATCTCTCTCTCCCAAGGAAAACAAAAC	600
QY	602	CGAGGCTCTTGAAAATGACAGATTTCTGAACCGCTTCCACCTGGCGAACTGAAGCA	661
Db	601	CGAGGCTCTTGAAAATGACAGATTTCTGAACCGCTTCCACCTGGCGAACTGAAGCA	660
QY	662	AGCACCCAGTTTCATGACCCAGAACTACAGGACTCACCAACCTCCAGGCTCCAGAGGA	721
Db	661	AGCACCCAGTTTCATGACCCAGAACTACAGGACTCACCAACCTCCAGGCTCCAGAGGA	720
QY	722	AGGGCCAGCGAGCCCCAAGCAC-AAAAACCAGCAGAGATAGCTGCTGCTAGATAGCCGGC	780
Db	721	AGGGCCAGCGAGCCCCAAGCACAAAAACCAGCAGAGATAGCTGCTGCTAGATAGCCGGC	780
QY	781	TTTGCCATCCGGGCATGTGGCCACACTGCTCAACCAACGAGATGTGGGTATGGAACCCC	840
Db	781	TTTGCCATCCGGGCATGTGGCCACACTGCTCAACCAACGAGATGTGGGTATGGAACCCC	840
QY	841	TCTGGATACAGAACCCTTCTTTTCCAAAATTAAAAAAA 880	
Db	841	TCTGGATACAGAACCCTTCTTTTCCAAAATTAAAAAAA 880	

RESULT 3
ADK70378
ID ADK70378 standard; cDNA; 903 BP.

AA
AC ADK70378;

MM	06-MAY-2004	(First entry)
DT		

Respiratory disease differentially expressed cDNA #114.

KM db; gene; cytostatic; respiratory; antiasthmatic; gene therapy;
KM differential gene expression; respiratory disorder; lung cancer;
KM chronic obstructive pulmonary disease; emphysema; asthma.

OS Homo sapiens.

AA WO2003101283-A2.
PN

PD 11-DEC-2003.

02-JUN-2003; 2003WO-US017409.

AA
PR 04-JUN-2002; 2002US-0386005P.

PA (INCY-) INCYTE CORP.

PI Rickert PK, Krasnow R;

DR WPI; 2004-042945/04.

PT New combination comprising cDNAs and proteins that are differentially expressed in respiratory disorders, useful for diagnosing or treating respiratory diseases e.g. lung cancer, chronic obstructive pulmonary diseases or asthma.

PS Claim 1; SEQ ID NO 114; 343pp; English.

The invention relates to cDNA sequences that are differentially expressed in respiratory disorders or their complements or encoded proteins. The cDNAs and proteins are useful for diagnosing, treating or monitoring treatment of a subject with a respiratory disease including lung cancer, chronic obstructive pulmonary diseases, emphysema or asthma. The protein is also useful for screening molecules or compounds to identify at least one ligand which specifically binds the protein. It is also useful for

CC	preparing and purifying a polyclonal or monoclonal antibody. This
CC	sequence corresponds to a cDNA of the invention.
XX	
SEQ	Sequence 903 BP; 222 A; 251 C; 242 G; 188 T; 0 U; 0 Other;

Query Match	96.5%	Score 858.9;	DB 1;	length 903;
Best Local Similarity	99.28;	Pred. No. 0;		
Matches 873;	Conservative	0;	Mismatches	6;
			Indels	1;
			Gaps	1;

QY		2	AGTACTTGTGTCCGGGTGGTGA	CTGGATTAGCTGCGGAGCCCTTGAA	AGCTGCTGTCT	61
Db		1	AGTACTTGTGTCCGGGTGGTGA	CTGGATTGCTGCGGAGCCCTTGAA	AGCTGCTTCT	60
QY		62	TCTCCCTGTGCTTAACCA	GAGGTGCCATGGGTGGACAATGAGGCTGTCT	CACAGCA	121
Db		61	TCTCCCTGTGCTTAACCA	GAGGTGCCATGGGTGGACAATGAGGCTGTCT	CACAGCA	120
QY		122	CTGTACTGGTCTCATGAT	GGTGTCACTGGAGACGAGATGAGAACAGCCGTGTGCC		181
Db		121	CTGTACTGGTCTCATGAT	GGTGTCACTGGAGACGAGATGAGAACAGCCGTGTGCC		180
QY		182	CATGAGGCCCTCTTGACA	CGAGACACCCCTCTTTTGCCAGGGCCTGAAGTTTCTACCCA		241
Db		181	CATGAGGCCCTCTTGACA	CGAGACACCCCTCTTTTGCCAGGGCCTGAAGTTTCTACCCA		240
QY		242	GAGTTGGGGAACATTGG	CTGCAAGTTGTTCTCTGATTGTAACTAACACAGAAAGATC		301
Db		241	GAGTTGGGGAACATTGG	CTGCAAGTTGTTCTCTGATTGTAACTAACACAGAAAGATC		300
QY		302	ACCTCCTGATGAGCCG	ATAGTCAAGTTCCCGGGGGCCGTGACGGCGCAACTATATC		361
Db		301	ACCTCCTGATGAGCCG	ATAGTCAAGTTCCCGGGGGCCGTGACGGCGCAACTATATC		360
QY		362	CTGTGATGTGATCCAG	ATGCCCCCTAGCAGACGACAGAACCCAGACAGATTTCTGAGA		421
Db		361	CTGTGATGTGATCCAG	ATGCCCCCTAGCAGACGACAGAACCCAGACAGATTTCTGAGA		420
QY		422	CATTGGCTGTAAACAG	ATATCAAGGGCGCCGACCTGAAGAAAGGAAGATTCAGGGCCAG		481
Db		421	CATTGGCTGTAAACAG	ATATCAAGGGCGCCGACCTGAAGGAAGGAAGATTCAGGGCCAG		480
QY		482	GAGTTATCAGCCTACA	GAGGCTCCCTCCCAACCGGCACACAGTGGCTTCCATCGCTACCAG		541
Db		481	GAGTTATCAGCCTACA	GAGGCTCCCTCCCAACCGGCACACAGTGGCTTCCATCGCTACCAG		540
QY		542	TTCTTTGTCTATCTT	CAGGAAGAAAGTCATCTCTCTCTTCCCAAGGAAACAACAACT		601
Db		541	TTCTTTGTCTATCTT	CAGGAAGAAAGTCATCTCTCTCTTCCCAAGGAAACAACAACT		600
QY		602	CGAGGCTCTTGAAAT	GACAGATTCTGAAACCGCTTCCACCTGGCGCAACCTGAAGCA		661
Db		601	CGAGGCTCTTGAAAT	GACAGATTCTGAAACCGCTTCCACCTGGCGCAACCTGAAGCA		660
QY		662	AGCACCAGTTTCATG	ACCAGAACTACAGGACTCACCAACCTCCAGGCTCCAGAGGA		721
Db		661	AGCACCAGTTTCATG	ACCAGAACTACAGGACTCACCAACCTCCAGGCTCCAGAGGA		720
QY		722	AGGGCCAGCGAGCC	CAAGCAC-AAAACAGGCAGAGATAGCTGCTGTAGATAGCCGGC		780
Db		721	AGGGCCAGCGAGCC	CAAGCACAAAACAGGCAGAGATAGCTGCTGTAGATAGCCGGC		780
QY		781	TTTGCCATCCGGG	CATGTGGCCACACTGCTCACCAACGACGATGTGGGTATGGAACCCC		840
Db		781	TTTGCCATCCGGG	CATGTGGCCACACTGCTCACCAACGACGATGTGGGTATGGAACCCC		840
QY		841	TTTGATACAGAAC	CCCTTCTTTTCCAAATTAAAAA	880	
Db		841	TTTGATACAGAAC	CCCTTCTTTTCCAAATTAAAAA	880	

RESULT 4
AAF94490
ID AAF94490 standard; cDNA; 897 BP.

XX AAF94490;
XX
DT 04-JUN-2001 (first entry)
XX
DE Human hydrophobic domain containing protein clone HP03880 cDNA #114.
KW Human; hydrophobic domain; immunosuppressant; anti-HIV; neuroprotective;
KW antianaemic; vulnery; antiulcer; osteopathic; anti-inflammatory;
KW cyostatic; gene therapy; autoimmune disorder; multiple sclerosis;
KW HIV infection; anaemia; burn; ulcer; osteoporosis; tumour; wound healing;
KW inflammatory bowel disease; nutritional supplement; appetite; vaccine;
KW behavioural characteristic; immune response; ss.
OS Homo sapiens.
XX
PN WO200112660-A2.
XX
PD 22-FEB-2001.
XX
PF 10-AUG-2000; 2000WO-JP005356.
XX
PR 17-AUG-1999; 99JP-00230344.
PR 07-SEP-1999; 99JP-00252551.
PR 01-OCT-1999; 99JP-00281132.
PR 22-OCT-1999; 99JP-00301624.
PR 04-NOV-1999; 99JP-00313877.
XX
PA (SAGA) SAGAMI CHEM RES CENT.
PA (PROT-) PROTEGENE INC.
XX
PI Kato S, Kimura T;
XX
XX WPI, 2001-160059/16.
DR P-PSDB; AAB88590.
DR
XX
PT Human proteins with hydrophobic domains and the DNAs which encode them
PT are useful for treating autoimmune disorders, burns and tumors and for
PT screening novel pharmaceuticals.
XX
PS Claim 4; Page 442-444; 518pp; English.
XX
CC AAF94417 to AAF94516 encode the human proteins given in AAB88557 to
CC AAB88606 (I) which have a hydrophobic domain. (I) have immunosuppressant,
CC anti-HIV, neuroprotective, antianaemic, vulnery, antiulcer,
CC osteopathic, anti-inflammatory and cyostatic activities, and can be used
CC in gene therapy. (I) can be used as pharmaceuticals and as antigens to
CC prepare antibodies. DNA and cDNA (II) encoding (I) can be used as probes
CC for genetic diagnosis and gene sources for gene therapy or for producing
CC (I) in large quantities. Cells containing (II) are used for the detection
CC of ligands or receptors corresponding to membrane or secretory proteins
CC and to screen small molecule novel pharmaceuticals. Antibodies directed
CC to (I) can be used for the detection, quantification and purification of
CC (I). Activities of (I) may include cytokine and cell
CC proliferation/differentiation function, immune stimulating or suppressing
CC activity, haematopoiesis regulating activity, tissue growth activity,
CC activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, receptor/ligand activity and anti-inflammatory
CC activity. (I) and (II) can be used to treat autoimmune disorders e.g.
CC multiple sclerosis, HIV infections, anaemia, burns, ulcers, osteoporosis,
CC inflammatory bowel disease and tumours. (I) and (II) can also be used for
CC wound healing, as nutritional sources or supplements e.g. as amino acid,
CC carbon or nitrogen source, to effect metabolism, catabolism, anabolism,
CC processing and utilisation of dietary fat, protein, carbohydrate,
CC vitamins and minerals, to effect behavioural characteristics, to affect
CC appetite, and can act as antigens in vaccines to raise an immune response
CC to the protein or another material cross-reactive with the protein
XX
SQ Sequence 897 BP; 226 A; 253 C; 234 G; 184 T; 0 U; 0 Other;

Query Match 96.4%; Score 858.3; DB 1; Length 897;
Best Local Similarity 99.1%; Pred. No. 0;
Matches 873; Conservative 0; Mismatches 7; Indels 1; Gaps 1;

QY 1 AAGTACTTGTCTCCGGGTGTGACTGATTAGCTGCGAGCCCTGGAAGCTGCTTCC 60
D 11 AAGTACTTGTCTCCGGGTGTGACTGATTAGCTGCGAGCCCTGGAAGCTGCTTCC 70
QY 61 TTCTCCCTGTCTTAACCAAGGTGCCATGGGTGGAACAATGAGGCTGTACAGCAGC 120
D 71 TTCTCCCTGTCTTAACCAAGGTGCCATGGGTGGAACAATGAGGCTGTACAGCAGC 130
QY 121 ACTGTTACTGGGTCTCATGATGCTGTCACTGAGACGAGATGAGAACAGCCGTGTC 180
D 131 ACTGTTACTGGGTCTCATGATGCTGTCACTGAGACGAGATGAGAACAGCCGTGTC 190
QY 181 CCATGAGGCCCTCTTGGACGAGACACCCCTTTTGGCAGGGCCCTGAAGTTTCTACCC 240
D 191 CCATGAGGCCCTCTTGGACGAGACACCCCTTTTGGCAGGGCCCTGAAGTTTCTACCC 250
QY 241 AGAGTTGGGGAACATTGGCTGCAAGGTTGTTCTGATTGTAACAACATACAGAGAAGAT 300
D 251 AGAGTTGGGGAACATTGGCTGCAAGGTTGTTCTGATTGTAACAACATACAGAGAAGAT 310
QY 301 CACCTCCTGATGAGCCGATAGTCAAGTTCCCGGGGGCCGTGACCGCCCAACTATAT 360
D 311 CACCTCCTGATGAGCCGATAGTCAAGTTCCCGGGGGCCGTGACCGCCCAACTATAT 370
QY 361 CCTGTGATGGTGAATCCAGATGCCCTTACAGACAGACGAAACCAAGATCTTGAG 420
D 371 CCTGTGATGGTGAATCCAGATGCCCTTACAGACAGACGAAACCAAGATCTTGAG 430
QY 421 ACATTGCTGTGAACAGATATCAAGGCGCCGACCTGAAGAAAGGAAGATTCAAGGCCA 480
D 431 ACATTGCTGTGAACAGATATCAAGGCGCCGACCTGAAGAAAGGAAGATTCAAGGCCA 490
QY 481 GGAGTTATAGCCTTACAGGCTCCCTCCCAACCGGACACAGTGCTTCATGCTCA 540
D 491 GGAGTTATAGCCTTACAGGCTCCCTCCCAACCGGACACAGTGCTTCATGCTCA 550
QY 541 GTTCTTGTCTATCTTCAGGAGGAAAGTCTCTCTTCCCAAGGAAACAAAC 600
D 551 GTTCTTGTCTATCTTCAGGAGGAAAGTCTCTCTTCCCAAGGAAACAAAC 610
QY 601 TCGAGGCTTGGAAAAATGACAGATTCTGAACCGCTTCCACCTGGCGAAGCTGAAGC 660
D 611 TCGAGGCTTGGAAAAATGACAGATTCTGAACCGCTTCCACCTGGCGAAGCTGAAGC 670
QY 661 AAGCACCAGTTCATGACCCAGAACTACAGAGCTCAACCCCTCAGGCTCCAGAGA 720
D 671 AAGCACCAGTTCATGACCCAGAACTACAGAGCTCAACCCCTCAGGCTCCAGAGA 730
QY 721 AAGGCCAGCGAGCCCAAGCAC-AAACAGGACGAGATAGTGCCTGTAGTAGCCGG 779
D 731 AAGGCCAGCGAGCCCAAGCACAAACAGGCGAGATAGTGCCTGTAGTAGCCGG 790
QY 780 CTTTGCATCCGGGATGTGGCCACACTGCTCAACCGAGATGTGGTATGGAACCC 839
D 791 CTTTGCATCCGGGATGTGGCCACACTGCTCAACCGAGATGTGGTATGGAACCC 850
QY 840 CTCTGATACAGAACCCCTCTTTTCCAAATTAAAAAAA 880
D 851 CTCTGATACAGAACCCCTCTTTTCCAAATAAAAAAAA 891

RESULT 5
AAx97660
ID AAX97660 standard, DNA; 826 BP.
AC AAX97660;
XX
DT 13-SEP-1999 (first entry)
XX
DE Extended human secreted protein coding sequence, SEQ ID NO. 124.
XX
KW Secreted protein; human; cytokine; cellular proliferation; cell movement;

KW cellular differentiation; immune system regulator; anti-inflammatory;
KW haematopoiesis regulator; tissue growth regulator; tumour inhibitor;
KW reproductive hormone regulator; chemotaxis; chemokinesis; gene therapy;
KW genetic disease; ss.
XX Homo sapiens.
OS
PN WO931236-A2.
XX
PD 24-JUN-1999.
XX
PF 17-DEC-1998; 98WO-IB002122.
XX
PR 17-DEC-1997; 97US-0069957P.
PR 09-FEB-1998; 98US-0074121P.
PR 13-APR-1998; 98US-0081563P.
PR 10-AUG-1998; 98US-0096116P.
XX
PA (GEST) GENSET.
XX
PI Bougueleret L, Duclert A, Dumas Milne Edwards J;
XX
XX WPI; 1999-385906/32.
DR P-PSDB; AAY35976.
DR
XX
PT New isolated human secreted proteins.
XX
PS Claim 1; Page 255; 516pp; English.
XX
CC This sequence represents an extended human secreted protein coding
CC sequence of the invention. The secreted proteins can be used in treating
CC or controlling a variety of human conditions. The secreted proteins may
CC act as cytokines or may affect cellular proliferation or differentiation
CC or may act as immune system regulators, haematopoiesis regulators, tissue
CC growth regulators, regulators of reproductive hormones or cell movement
CC or have chemotactic/chemokinetic, receptor/ligand, anti-inflammatory or
CC tumour inhibition activity. The DNAs can be used in forensic procedures
CC to identify individuals or in diagnostic procedures to identify
CC individuals having genetic diseases resulting from abnormal expression of
CC the genes corresponding to the extended cDNAs. They are also useful for
CC constructing a high resolution map of the human chromosomes. They can
CC also be used for gene therapy to control or treat genetic diseases
XX
SQ Sequence 826 BP; 228 A; 229 C; 211 G; 158 T; 0 U; 0 Other;

Query Match 88.1%; Score 784.3; DB 1; Length 826;
Best Local Similarity 99.0%; Pred. No. 0;
Matches 799; Conservative 0; Mismatches 7; Indels 1; Gaps 1;

OY 75 AACCAAGGTGCCATGGGTTGACAAATGAGGCTGTACACAGCAGCACTGTTACTGGGTC 134
DB 1 AACCAAGGTGCCATGGGTTGACAAATGAGGCTGTACACAGCAGCACTGTTACTGGGTC 60
OY 135 TCATGATGGTGTCACTGAGACGAGATGAAACAGCCCGTGTGCCATGAGGCCCTCT 194
DB 61 TCATGATGGTGTCACTGAGACGAGATGAAACAGCCCGTGTGCCATGAGGCCCTCC 120
OY 195 TGGACGAGACACCCCTCTTTTGCCAGGGCTTGAAGTTTCTACCCAGAGTTGGGAACA 254
DB 121 TGGACGAGACACCCCTCTTTTGCCAGGGCTTGAAGTTTCTACCCAGAGTTGGGAACA 180
OY 255 TTGGCTGCAAGTTGTTCTCTGATTGTAACTACAGACAGAAAGATCACTCCTGGATGG 314
DB 181 TTGGCTGCAAGTTGTTCTCTGATTGTAACTACAGACAGAAAGATCACTCCTGGATGG 240
OY 315 AGCCGATAGTCAAGTTCCCGGGGCGGTGACGGCGCAACCTATATCTGTGTGATGGTG 374
DB 241 AGCCGATAGTCAAGTTCCCGGGGCGGTGACGGCGCAACCTATATCTGTGTGATGGTG 300
OY 375 ATCCAGATGCCCTTAGCAGAGCAGAACCCAGACAGAGATTCTGAGACATTGGCTGTAA 434
DB 301 ATCCAGATGCCCTTAGCAGAGCAGAACCCAGACAGAGATTCTGAGACATTGGCTGTAA 360

OY 435 CAGATATCAAGGGCGCCGACCTTGAAAGAAAGGAAGATTTCAGGGCCAGAGTTATCAGCCT 494
DB 361 CAGATATCAAGGGCGCCGACCTTGAAAGAAAGGAAGATTTCAGGGCCAGAGTTATCAGCCT 420
OY 495 ACCAGGCTCCCTCCCGACCCGGCAGACAGTGGCTTCCATCGCTTACAGTTCTTGTCTATC 554
DB 421 ACCAGGCTCCCTCCCGACCCGGCAGACAGTGGCTTCCATCGCTTACAGTTCTTGTCTATC 480
OY 555 TTCAGGAAGAAAAGTCATCTCTCTCTTCCCAAGAAAACAAACCTCGAGGCTCTTGGA 614
DB 481 TTCAGGAAGAAAAGTCATCTCTCTCTTCCCAAGAAAACAAACCTCGAGGCTCTTGGA 540
OY 615 AAATGACAGATTTTCTGAACCGCTTCCACCTGGGCGAACTGAAGCAAGCACCAGTTCA 674
DB 541 AAATGACAGATTTTCTGAACCGTTCCACCTGGGCGAACTGAAGCAAGCACCAGTTCA 600
OY 675 TGACCCAGAACTAACAGGACTCACCAACCCCTCCAGGCTCCCAAGAGAAAGGCCAGCAGC 734
DB 601 TGACCCAGAACTAACAGGACTCACCAACCCCTCCAGGCTCCCAAGAGAAAGGCCAGCAGC 660
OY 735 CCAAGCAC-AAAACAGGACAGATAGCTGCTGCTAGATAGCGGCTTTGCCATCCGGG 793
DB 661 CCAAGCACAAAAACAGGCGGAGATAGCTGCTGCTAGATAGCGGCTTTGCCATCCGGG 720
OY 794 CATGTGCCCACTGCTCTCACCACCGACGATGTGGTATGGAACCCCTCTGGATACAGAA 853
DB 721 CATGTGCCCACTGCCCCACCGACGATGTGGTATGGAACCCCTCTGGATACAGAA 780
OY 854 CCCCTCTTTTCCAAATTAAAAAAA 880
DB 781 CCCCTCTTTTCCAAATAAAAAAAA 807

RESULT 6

AAZ42252
ID AAZ42252 standard; cDNA; 826 BP.

XX AC AAZ42252;

DT 01-FEB-2000 (first entry)

DE Human phosphatidylethanolamine-binding protein encoding cDNA.

KW Human; 5' EST; expressed sequence tag; secreted protein; diagnosis;
KW gene therapy; chromosome mapping; upstream regulatory sequence; forensic;
KW location; development; protein synthesis; stability; regulation;
KW identification; ss.

OS Homo sapiens.

PN WO9953051-A2.

PD 21-OCT-1999.

PF 09-APR-1999; 99WO-IB000712.

PR 09-APR-1998; 98US-00057719.

PR 28-APR-1998; 98US-00069047.

PA (GEST) GENSET.

PI Dumas Milne Edwards J, Duclert A, Giordano J;

DR WPI; 2000-038446/03.

DR P-PSDB; AAY64647.

PT Novel secreted protein 5' expressed sequence tag sequences used in
PT diagnostic, forensic, gene therapy, and chromosome mapping procedures.

PS Example 21; Page 168-169; 837pp; English.

XX AAZ42265 to AAZ43075 represent novel 5' expressed sequence tag (EST)
CC sequences, corresponding to human secreted proteins. AAY64651 to AAY65438

CC represent the EST-related proteins corresponding to AA42265 to AA43052.
CC The 5' ESTs can be used for producing secreted human gene products. They
CC can be used to identify and isolate 5' untranslated regions (UTRs) and
CC upstream regulatory regions which control the location, development
CC stage, rate, and quantity of protein synthesis, as well as stability of
CC mRNA. The ESTs are also useful as probes for chromosome mapping, and to
CC obtain full length cDNA clones. The ESTs can also be used in forensic
CC procedures to identify individuals, or in diagnostic procedures to
CC identify individuals having genetic diseases resulting from abnormal gene
CC expression. The products may also be used in gene therapy protocols. The
CC extracellular secretion of a polypeptide or the insertion of a
CC polypeptide into a membrane, or importing a polypeptide into a cell. The
CC proteins encoded by the EST sequences may be useful in treating a variety
CC of human conditions. Secreted proteins have therapeutic value, and the
CC identification of new secreted proteins is valuable. AA42249 to AA42264
CC and AA4644 to AA4650 represent sequences used in the exemplification
CC of the present invention

XX Sequence 826 BP; 228 A; 229 C; 211 G; 158 T; 0 U; 0 Other;

Query Match 88.1%; Score 784.3; DB 1; Length 826;
Best Local Similarity 99.0%; Pred. No. 0;
Matches 799; Conservative 0; Mismatches 7; Indels 1; Gaps 1;

QY 75 AACGAGGTGCCCCATGGGTGGACAATGAGGTGTCACAGCAGCAGTGTACTGGGTC 134
Db 1 AACGAGGTGCCCCATGGGTGGACAATGAGGTGTCACAGCAGCAGTGTACTGGGTC 60
QY 135 TCATGATGTTGTTCACTGAGACGAGGATGAGAACAGCCCGTGTGCCATGAGGCCCTCT 194
Db 61 TCATGATGTTGTTCACTGAGACGAGGATGAGAACAGCCCGTGTGCCATGAGGCCCTCC 120
QY 195 TGGACGAGGACACCCCTCTTTTGGCAGGGCCCTTGAAGTTTCTACCCAGAGTTGGGAGACA 254
Db 121 TGGACGAGGACACCCCTCTTTTGGCAGGGCCCTTGAAGTTTCTACCCAGAGTTGGGAGACA 180
QY 255 TTGGCTGCAAGTTGTTCTCTGATTGTAACAATAACAGACAGAGATCACTCCTCGATGG 314
Db 181 TTGGCTGCAAGTTGTTCTCTGATTGTAACAATAACAGACAGAGATCACTCCTCGATGG 240
QY 315 AGCCGATAGTCAAGTTCCTCCGGGGCCGTGAGCGGCAACCTATATCTCTGTGATGGTGG 374
Db 241 AGCCGATAGTCAAGTTCCTCCGGGGCCGTGAGCGGCAACCTATATCTCTGTGATGGTGG 300
QY 375 ATCCAGATGCCCCCTAGCAGAGCAGAACCCAGACAGAGATTTGGAGACATTGGCTGTAA 434
Db 301 ATCCAGATGCCCCCTAGCAGAGCAGAACCCAGACAGAGATTTGGAGACATTGGCTGTAA 360
QY 435 CAGATATCAAGGGCGCCGACCTGAGAGAAAGGAGATTCAGGGCCAGGAGTTATAGCCT 494
Db 361 CAGATATCAAGGGCGCCGACCTGAGAGAAAGGAGATTCAGGGCCAGGAGTTATAGCCT 420
QY 495 ACCAGGTCCTCCCGACCGGACACAGTGGCTTCCATGCTTACCAAGTTCTTGTCTATC 554
Db 421 ACCAGGTCCTCCCGACCGGACACAGTGGCTTCCATGCTTACCAAGTTCTTGTCTATC 480
QY 555 TTCAAGAGAGAAAGTCACTCTCTCTCTCCCAAGGAAACAAACTCGAGGCTCTTGA 614
Db 481 TTCAAGAGAGAAAGTCACTCTCTCTCTCCCAAGGAAACAAACTCGAGGCTCTTGA 540
QY 615 AAATGACAGATTTCTGAACCGCTTCCACCTGGGCGAACTGAAAGCAAGCACCAGTTCA 674
Db 541 AAATGACAGATTTCTGAACCGCTTCCACCTGGGCGAACTGAAAGCAAGCACCAGTTCA 600
QY 675 TGACCCAGAACTACAGAGACTCAACCAACCTCCAGGCTCCAGAGAGAGGCGCAGCGAGC 734
Db 601 TGACCCAGAACTACAGAGACTCAACCAACCTCCAGGCTCCAGAGAGAGGCGCAGCGAGC 660
QY 735 CCAAGCAC-AAAACCGAGAGATAGTCTGCTGCTAGATAGCCGGCTTTGCCATCCGGG 793
Db 661 CCAAGCACAAAACCGAGAGATAGTCTGCTGCTAGATAGCCGGCTTTGCCATCCGGG 720

QY 794 CATGTGGCCACTGCTCACCACCGAGATGTGGTATGAAACCCCTCTGATACAGAA 853
Db 721 CATGTGGCCACTGCCCCACCGAGATGTGGTATGAAACCCCTCTGATACAGAA 780
QY 854 CCCCTTCTTCCAAATTAATAAAAAA 880
Db 781 CCCCTTCTTCCAAATTAATAAAAAA 807

RESULT 7
AAF94480
ID AAF94480 standard; cDNA; 681 BP.
XX
AC AAF94480;
XX
DT 04-JUN-2001 (first entry)
XX
DE Human hydrophobic domain containing protein clone HP03880 cDNA #104.
XX
KW Human; hydrophobic domain; immunosuppressant; anti-HIV; neuroprotective;
KW antianaemic; vulnery; antiulcer; osteopathic; anti-inflammatory;
KW cytostatic; gene therapy; autoimmune disorder; multiple sclerosis;
KW HIV infection; anaemia; burn; ulcer; osteoporosis; tumour; wound healing;
KW inflammatory bowel disease; nutritional supplement; appetite; vaccine;
KW behavioural characteristic; immune response; ss.
XX
OS Homo sapiens.
XX
PN WO200112660-A2.
XX
PD 22-FEB-2001.
XX

PF 10-AUG-2000; 2000WO-JP005356.
XX
PR 17-AUG-1999; 99JP-00230344.
PR 07-SEP-1999; 99JP-00252551.
PR 01-OCT-1999; 99JP-00281132.
PR 22-OCT-1999; 99JP-00301624.
PR 04-NOV-1999; 99JP-00313877.
XX
PA (SAGA) SAGAMI CHEM RES CENT.
PA (PROT-) PROTEGENE INC.
XX
PI Kato S, Kimura T;
XX
XX WPI; 2001-160059/16.
DR P-PSDB; AAB88590.
XX

PT Human proteins with hydrophobic domains and the DNAs which encode them
PT are useful for treating autoimmune disorders, burns and tumors and for
PT screening novel pharmaceuticals.
XX
XX
PS Claim 3; Page 426-427; 518pp; English.

XX
CC AAF94417 to AAF94516 encode the human proteins given in AAB88557 to
CC AAB88606 (I) which have a hydrophobic domain. (I) have immunosuppressant,
CC anti-HIV, neuroprotective, antianaemic, vulnery, antiulcer,
CC osteopathic, anti-inflammatory and cytostatic activities, and can be used
CC in gene therapy. (I) can be used as pharmaceuticals and as antigens to
CC prepare antibodies. DNA and cDNA (II) encoding (I) can be used as probes
CC for genetic diagnosis and gene sources for gene therapy or for producing
CC (I) in large quantities. Cells containing (II) are used for the detection
CC of ligands or receptors corresponding to membrane or secretory proteins
CC and to screen small molecule novel pharmaceuticals. Antibodies directed
CC to (I) can be used for the detection, quantification and purification of
CC (I). Activities of (I) may include cytokine and cell
CC proliferation/differentiation function, immune stimulating or suppressing
CC activity, haematopoiesis regulating activity, tissue growth activity,
CC activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, receptor/ligand activity and anti-inflammatory
CC activity. (I) and (II) can be used to treat autoimmune disorders e.g.
CC multiple sclerosis, HIV infections, anaemia, burns, ulcers, osteoporosis,
CC inflammatory bowel disease and tumors. (I) and (II) can also be used for

CC wound healing, as nutritional sources or supplements e.g. as amino acid, carbon or nitrogen source, to effect metabolism, catabolism, anabolism, processing and utilisation of dietary fat, protein, carbohydrate, CC vitamins and minerals, to effect behavioural characteristics, to affect CC appetite, and can act as antigens in vaccines to raise an immune response CC to the protein or another material cross-reactive with the protein

SQ Sequence 681 BP; 179 A; 186 C; 183 G; 133 T; 0 U; 0 Other;

Query Match 74.7%; Score 664.7; DB 1; Length 681;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 677; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

OY 89 ATGGGTGACAATGAGGCTGTCACAGACACTGTACTGGGTCTCATGATGTGTC 148
DB 1 ATGGGTGACAATGAGGCTGTCACAGACACTGTACTGGGTCTCATGATGTGTC 60
OY 149 ACTGAGACGAGGATGAGAACAGCCCGTGTGCCCATGAGGCCCTTTGACGAGACACC 208
DB 61 ACTGAGACGAGGATGAGAACAGCCCGTGTGCCCATGAGGCCCTTTGACGAGACACC 120
OY 209 CTCTTTGCCAGGGCCTTGAAGTTTCTACCCAGAGTTGGGGAACATTGGCTGCAAGTT 268
DB 121 CTCTTTGCCAGGGCCTTGAAGTTTCTACCCAGAGTTGGGGAACATTGGCTGCAAGTT 180
OY 269 GTTCCTGATTGTAACTACAGACAGAGATCACCTCCTGGATGGAGCCGATAGTCAAG 328
DB 181 GTTCCTGATTGTAACTACAGACAGAGATCACCTCCTGGATGGAGCCGATAGTCAAG 240
OY 329 TTCCCCGGGGCCGTGGACGGCGCAACTATATCTGTGTATGGTGTGATCCAGATGCCCT 388
DB 241 TTCCCCGGGGCCGTGGACGGCGCAACTATATCTGTGTATGGTGTGATCCAGATGCCCT 300
OY 389 AGCAGACGAAACCAGACAGAGATTCTGAGACATTGGCTGTAACAGATATCAAGGCG 448
DB 301 AGCAGACGAAACCAGACAGAGATTCTGAGACATTGGCTGTAACAGATATCAAGGCG 360
OY 449 GCCGACCTGAAGAAAGGAAGATTCAAGGCCAGGATTATCAGCCTACAGGCTCCCTCC 508
DB 361 GCCGACCTGAAGAAAGGAAGATTCAAGGCCAGGATTATCAGCCTACAGGCTCCCTCC 420
OY 509 CCACCCGACACAGTGGCTTCCATCGCTACCAAGTTCTTGTCTATCTTCAAGAAAGAAA 568
DB 421 CCACCCGACACAGTGGCTTCCATCGCTACCAAGTTCTTGTCTATCTTCAAGAAAGAAA 480
OY 569 GTCATCTCTCTCTTCCCAAGAAACAAACTCGAGGCTCTTGAAATGACAGATT 628
DB 481 GTCATCTCTCTCTTCCCAAGAAACAAACTCGAGGCTCTTGAAATGACAGATT 540
OY 629 CTGAACCGCTTCCACTGGGCGAAGCTGAAGCAAGCACCAGTTCATGACCCAGAACTAC 688
DB 541 CTGAACCGCTTCCACTGGGCGAAGCTGAAGCAAGCACCAGTTCATGACCCAGAACTAC 600
OY 689 CAGGACTCAACCCCTCCAGGCTCCAGAGGAAGGGCCAGGCCCAAGCAC-AAAAAC 747
DB 601 CAGGACTCAACCCCTCCAGGCTCCAGAGGAAGGGCCAGGCCCAAGCACAAAAAC 660
OY 748 CAGGACAGATAGCTGCTGC 768
DB 661 CAGGCGAGATAGCTGCTGC 681

RESULT 8
ID AAS62175/c
AAS62175 standard; cDNA; 303 BP.

AC AAS62175;
DT 29-JAN-2002 (first entry)
XX Porcine muscular steatosis-modulating factor #301.
DE
XX Pig; muscular steatosis-modulating factor; ss; metabolic; muscular; MSMF;

KW food supplement; obesity; hyperlipidaemia; atherosclerosis;
KW wound healing; tumour; amyotrophic lateral sclerosis; ALS.
XX Sus scrofa.
OS WO200179287-A2.
XX
PN 25-OCT-2001.
XX
PD 12-APR-2001; 2001WO-CA000509.
XX
PF 17-APR-2000; 2000US-0197936P.
XX
PR
XX
PA (MIAC) CANADA AGRIC & AGRI-FOOD CANADA.
XX
PI Palin M, Pomar C, Garlepy C;
XX
PS WPI; 2002-017600/02.

PT Prognosis and diagnosis of muscular steatosis, useful e.g. for selecting animals for breeding, by measuring levels of specific markers, also treating or inducing steatosis.
PS Claim 5; Page 188-189; 190pp; English.

CC The invention relates to prognosis or diagnosis of muscular steatosis by measuring the level of a muscular steatosis modulating factor (MSMF) in a human or animal and comparing this with the level in a healthy control.
CC Any difference indicates presence of, or predisposition to, muscular steatosis. The method is particularly used for diagnosis or prognosis of muscular steatosis in mammals and birds, e.g. to select individuals as founders in animal breeding. Also (ant)agonists of MSMF can be used to treat, or induce (for increasing the fat content of food) muscular steatosis, in humans and animals. The MSMF markers are also useful in the study of diseases and conditions such as obesity, hyperlipidaemia, CC atherosclerosis, wound healing, tumours and amyotrophic lateral sclerosis (ALS). The present sequence is a MSMF of the invention

SQ Sequence 303 BP; 59 A; 72 C; 87 G; 82 T; 0 U; 3 Other;

Query Match 18.8%; Score 167.2; DB 1; Length 303;
Best Local Similarity 80.1%; Pred. No. 0;
Matches 229; Conservative 0; Mismatches 51; Indels 6; Gaps 3;

OY 536 TACCACTCTTGTCTATCTTCAAGAAAGTATCTCTCTTCCCAAGAAAC 595
DB 303 TACCACTCTTGNMTATGTTC-AGAGAAAGACATCTCTCTCTTCCCAAGAAAC 245
OY 596 AAACTCGAGGCTCTTGAAAATGACAGATTCTGAAACCGCTTCCACTGGCGAACCT 655
DB 244 AAACTCGAGGCTCTTGAAAATGACAAATTCTGAGCCGCTTCCACTGAGCGAACCT 185
OY 656 GAAGCAACACCCAGTTCATGACCCAGAACTACAGGACTACCAACCTCCAGGCTCCC 715
DB 184 GAAGCAACACCCAGTTCATGACCCAGAACTATTAACAGGACTACAAAGCTCCAGCCAGGG 125
OY 716 AGAGGAAGGGCCAGCGAGCCCAAGCAAAAACAGGACAGATAGCTGCTGATAG 775
DB 124 GAAGGAAG---TAGTGAGCCCAAGACAAACCAAGCGAGATTAAGTCCCCGACAGACT 68
OY 776 CCGGCTTGCCATCCGGGATGTGGCCACACTGCTACCAACGACG 821
DB 67 CAGGCTTCAAGTTGACAG--TGTTCTACAGTGCTCACCGGCTCG 24

RESULT 9
ID AAH85783/c
AAH85783 standard; DNA; 133 BP.

AC AAH85783;
DT 27-FEB-2002 (first entry)
XX

DE Human single nucleotide polymorphism containing DNA sequence #640.
XX
KW Biallelic marker; polymorphism; human; disease; diagnosis; treatment;
KW phenotypic trait; gene therapy; forensic; paternity; mapping; cancer;
KW transgenic; single nucleotide polymorphism; SNP; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT variation replace(59,A)
FT /*tag= a
FT /standard_name= "single nucleotide polymorphism"
XX
PN WO953095-A2.
XX
PD 21-OCT-1999.
XX
PF 30-MAR-1999; 99WO-US006893.
XX
PR 09-APR-1998; 98US-00057871.
XX
PA (WHED) WHITEHEAD INST BIOMEDICAL RES.
XX
PI Lander ES, Wang D, Hudson T;
XX
DR WPI; 1999-620443/53.
XX
PT Polymorphic human genomic sequences and related allele-specific probes
PT and primers, useful for genetic analysis, e.g. diagnosis and monitoring
PT of disease.
XX
PS Claim 1; Page 99; 330pp; English.
XX
CC This invention describes novel human nucleic acid segments (I) containing
CC polymorphic sites. The polynucleotides of (I) are used for, e.g.
CC correlating disease polymorphisms (or disease susceptibility) or other
CC phenotypic traits (e.g. baldness, obesity, fertility, strength, response
CC to drugs etc.); diagnosing and monitoring e.g. cancer, inflammation,
CC heart or central nervous system diseases; detecting susceptibility to
CC microbial infection; treating or preventing such diseases; forensic
CC analysis; gene therapy; paternity testing; mapping genomic loci
CC associated with phenotypic traits (and subsequent cloning of the genes
CC responsible); and the production of transgenic organisms. Antibodies
CC raised against (I) are useful as diagnostic and therapeutic tools and in
CC drug screening. AAH85144 - AAH87644 represent the human DNA sequences
CC containing biallelic polymorphic sites described in the invention
XX
SQ Sequence 133 BP; 25 A; 31 C; 43 G; 33 T; 0 U; 1 Other;
Query Match 13.5%; Score 120.2; DB 1; Length 133;
Best Local Similarity 96.8%; Pred. No. 0;
Matches 122; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 743 AAAACCGCAGAGATAGCTGCTGTAGATAGCCGGCTTTGCCATCCGGCATGTGCC 802
Db |||||||
126 AAAACCGCGGAGATAGCTGCTGTAGATAGNCCGCTTTGCCATCCGGCATGTGCC 67
QY 803 AACTGTCTCACCACGACGATGGGTATGAAACCCCTCTGGATACAGAACCCCTTCTT 862
Db |||||||
66 AACTGTCCCAACCAACGACGATGGGTATGAAACCCCTCTGGATACAGAACCCCTTCTT 7
QY 863 TTCCAA 868
Db |||||||
6 TTCCAA 1

XX
DE Phase-1 Rat CT gene SEQ ID No 120.
XX
KW Rat; toxicity study; rat toxic response gene; toxicological response;
KW drug development; phase-1 rat CT gene; ds.
XX
OS Rattus sp.
XX
PN WO200266682-A2.
XX
PD 29-AUG-2002.
XX
PF 29-JAN-2002; 2002WO-US002935.
XX
PR 29-JAN-2001; 2001US-0264933P.
PR 26-JUL-2001; 2001US-0308161P.
XX
PA (PHAS-) PHASE-1 MOLECULAR TOXICOLOGY INC.
XX
PI Farris G, Hicken SH, Farr SB;
XX
DR WPI; 2002-674961/72.
XX
PT Evaluating the toxicity of an agent, useful in drug development or in
PT determining toxicological responses to a new drug, by determining the
PT expression of rat toxicologically relevant genes in the test animal in
PT response to the test agent.
XX
PS Disclosure; Page 135; 388pp; English.
XX
CC The invention relates to a method used for evaluating the toxicity of an
CC agent comprising determining the expression of a rat toxic response
CC gene(s) in the test animal in response to the agent. The method is useful
CC in drug development, particularly for conducting toxicity studies and
CC analysis before a new drug or compound is approved for human consumption
CC or use. The method is also useful in determining toxicological responses
CC to a new drug. This polynucleotide sequence represents a phase-1 rat CT
CC gene of the invention
XX
SQ Sequence 686 BP; 159 A; 200 C; 203 G; 123 T; 0 U; 1 Other;
Query Match 5.6%; Score 49.4001; DB 1; Length 686;
Best Local Similarity 48.8%; Pred. No. 0;
Matches 181; Conservative 0; Mismatches 166; Indels 24; Gaps 2;
QY 355 CTATATCCTGTGATGTGTGATCCAGATGCCCTAGCAGAGCAGAACCCAGACAGATT 414
Db |||||
218 CTACACCTGTGCTCTACAGACCCCGATGCTCCAGCAGAGAACCCCAATTACAGGA 277
QY 415 CTGAGACATTTGCTGTAAACAGATATCAAGGGCCGACCTGAAGAAAGGAAGATTCA 474
Db |||||
278 GTGGACCACTTCTGTGTGTCACATGAAGGGCAACGACATTAGCAGTGCATGTCC- 336
QY 475 GGGCCAGAGTTATCAGCCTACCGAGCTCCCTCCACCGGCAACAGTGCTTCATCG 534
Db |||||
337 -----TCTCCGAATACGTGGGCTCCGACCTCCCAAGAACAACAGTCTGCACCG 385
QY 535 CTACCACTTTTGTCTATCTTCAGGAAGAAAAGTCATCTCTCTTCCCAAGAA 594
Db |||||
386 CTACGTCTGGCTGTGTATGAGCAGAGCAGCTCTGAAGTGTGACGAGCCCATCTCAG 445
QY 595 CAAACT-----CGAGGCTTTGGAATGACAGATTCTGAACCGCTTCCA 642
Db |||||
446 CAACAAGTCTGAGACAACCGCGCAAGTTCAGAGTGAATCTTCCGCAAGAGTACCA 505
QY 643 CCTGGCGAACCTGAAGCAAGCAACCAAGTTCATGACCCAGAACTACCAAGACTACCAAC 702
Db |||||
506 CCTGGAGCCCCCGGTGGCCGCAAGTCTTCCAGGCAAGTGGATGACTCTGTGCCAA 565
QY 703 CCTCAGGCTC 713
Db |||||
566 GCTGATGATC 576

RESULT	11
AAD42238	
ID	AAD42238 standard; cDNA; 1078 BP.
XX	
AC	AAD42238;
XX	
DT	04-NOV-2002 (first entry)
XX	
DE	Corn FT homologue cDNA #1.
XX	
KM	Floral developmental protein; flowering locus T; APETALA3; transgenic;
KM	FT; Ap3; transgenic plant; fertility; flower development; gene mapping;
KM	sterility; plant growth; inflorescence architecture; plant morphology;
KM	tissue culture; cell division; corn; gene; ss.
XX	
OS	Zea mays.
XX	
FH	Key
FT	CDS
FT	
FT	

Location/Qualifiers
312. .833
/*tag= a
/product= "Corn FT homologue protein"

PN WO200244390-A2.
XX
PD 06-JUN-2002.
XX
PF 21-NOV-2001; 2001WO-US043750.
XX
PR 28-NOV-2000; 2000US-0253415P.
XX
PA (DUPO) DU PONT DE NEMOURS & CO E I.
XX
PI Cahoon EB, Cahoon RE, Klein TM, Rafalski AJ, Sakai H;
XX WPI; 2002-547703/58.
DR P-PSDB; AAE25736.
XX
XX
PT New floral developmental polypeptide having flowering locus T or Ap3
PT homolog activity, useful for immunological screening of cDNA expression
PT libraries.

PS Claim 6; Page 54; 88pp; English.

XX
CC The present invention relates to novel floral developmental proteins,
CC more specifically flowering locus T (FT) or APETALA3 (AP3) homologue
CC proteins and polynucleotides encoding such proteins. Floral developmental
CC polynucleotides are useful for transforming cells or for producing plants
CC by transforming the plant cells with the polynucleotides and regenerating
CC the plants from the transformed plant cells. Sequences of the invention
CC are useful for immunological screening of cDNA expression libraries. They
CC are also useful for creating transgenic plants. Polynucleotides of the
CC invention are used as probes for genetically and physically mapping the
CC genes that they are a part of and as markers for traits linked to those
CC genes. AP3 homologues may be useful for engineering plant sterility or
CC fertility, flower development and morphology. FT or TFL1 homologues are
CC useful for engineering flowering time, plant growth rate, inflorescence
CC architecture, tissue culture morphology and rate of cell division to
CC enhance transformation. The present sequence is corn FT homologue cDNA
CC from a contig of clones cbn10.pk0052.f5, cbn2.pk0035.f12,
CC cc01n.pk0010.h3, p0095.cwsa814f, p0119.cmtmg45rb and p0128.cpic142r
XX
SQ Sequence 1078 BP; 197 A; 336 C; 321 G; 224 T; 0 U; 0 Other;

Query Match	5.5%;	Score 48.8;	DB 1;	Length 1078;
Best Local Similarity	50.9%;	Pred. No. 0;		
Matches 138; Conservative	0;	Mismatches 127;	Indels 6;	Gaps 1;

Qy	182	CATGAGGCCCTCTTGGACGAGACACCTCTTTTGCCAGGGCCCTTGAATTTTCTACCA	241
Db	318	CGTGGGGATCCGCTGTGTGGGCCGCATATCGGCAGCGTGTGACCCCTTCGTGCGC	377
Qy	242	GAGTTGGGGACATTGTGCTGCAAGTTTCTCTGATTGTMACACTACAGACAGAAGATC	301

Db 378 CGGGTGCCTGCTCCGCGTACGCGCGCGAGGTCTCCAACGGCTGAGCTCAGG 437

QY 302 ACCTCCTGATG-----AGCCGATAGTCAAGTTCCCGGGGCGGTGACGGCGCAAC 355

Db 438 CCTCCGCCCATCGCCGACCGCGCGTCAAGTCCGGGACCCGACATGGCACTTC 497

QY 356 TATATCCTGTGATGTTGATCCAGATGCCCTAGCAGAGCAGAACCCAGACAGATTTC 415

Db 498 TACACCTCTGTGATGTAGATCTGTATGCCCGAGCCCGACGATCCCACTCAAGGAG 557

QY 416 TGGAGACATTGGCTGTACACAGATATCAAG 446

Db 558 TACCTGCACCTGGCTGGTCACTGATATTCGG 588

RESULT	12
AAD42243	
ID	AAD42243 standard; cDNA; 1191 BP.
XX	
AC	AAD42243;
XX	
DT	04-NOV-2002 (first entry)
XX	
DE	Corn FT homologue cDNA from clone p0081.chcad07r.

Floral developmental protein; flowering locus T; APETALA3; transgenic; FT; AP3; transgenic plant; fertility; flower development; gene mapping; sterility; plant growth; inflorescence architecture; plant morphology; tissue culture; cell division; corn; gene; ss.

Zea mays.

Key	Location/Qualifiers
CDS	175..708
	/*tag= a
	/product= "Corn FT homologue protein"

W0200244390-A2.

06-JUN-2002.

21-NOV-2001; 2001WO-US043750.

28-NOV-2000; 2000US-0253415P.

(DUPO) DU PONT DE NEMOURS & CO E I..

Cahoon EB, Cahoon RE, Klein TM, Rafalski AJ, Sakai H;

WPI; 2002-547703/58.

P-PSDB; AAE25741.

New floral developmental polypeptide having flowering locus T or *Ap3* homolog activity, useful for immunological screening of cDNA expression libraries.

Claim 6; Page 60; 88pp; English.

The present invention relates to novel floral developmental proteins, more specifically flowering locus T (FT) or APETALA3 (AP3) homologue proteins and polynucleotides encoding such proteins. Floral developmental polynucleotides are useful for transforming cells or for producing plants by transforming the plant cells with the polynucleotides and regenerating the plants from the transformed plant cells. Sequences of the invention are useful for immunological screening of cDNA expression libraries. They are also useful for creating transgenic plants. Polynucleotides of the invention are used as probes for genetically and physically mapping the genes that they are a part of and as markers for traits linked to those genes. AP3 homologues may be useful for engineering plant sterility or fertility, flower development and morphology. FT or TFL1 homologues are useful for engineering flowering time, plant growth rate, inflorescence architecture, tissue culture morphology and rate of cell division to

GENERAL INFORMATION:
APPLICANT: Lal, Preeti
Hillman, Jennifer
Corley, Neil
Shah, Purvi
TITLE OF INVENTION: HUMAN PHOSPHOLIPID BINDING PROTEINS
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Dr.
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/879,401
FILING DATE: 11-Jun-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/958,820
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0379 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 903 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: LUNGUT12
CLONE: 3126479
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-879-401-4

Query Match 96.5%; Score 858.9; DB 1; Length 903;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 873; Conservative 0; Mismatches 6; Indels 1; Gaps 1;

QY 2 AGTACTGTGTCCGGGTGTGAGTGAATTAAGTCGAGAGCCCTGGAAGCTGCTGTCT 61
|||
Db 1 AGTACTGTGTCCGGGTGTGAGTGAATTAAGTCGAGAGCCCTGGAAGCTGCTGTCT 60
QY 62 TCTCCCTGTGCTTAACCAAGAGTGCCTATGGTTGACCAATGAGGCTGTCAAGAGCA 121
|||
Db 61 TCTCCCTGTGCTTAACCAAGAGTGCCTATGGTTGACCAATGAGGCTGTCAAGAGCA 120
QY 122 CTGTTACTGGGTCTCATGATGTTGCACTGAGACGAGATGAGAAACAGCCCGTGTCC 181
|||
Db 121 CTGTTACTGGGTCTCATGATGTTGCACTGAGACGAGATGAGAAACAGCCCGTGTCC 180
QY 182 CATGAGGCCCTCTTGAGCAGAGACACCTCTTTTGCCAGGGCCTTGAAGTTTCTACCCA 241
|||
Db 181 CATGAGGCCCTCTTGAGCAGAGACACCTCTTTTGCCAGGGCCTTGAAGTTTCTACCCA 240
QY 242 GAGTTGGGGAACATTGGCTGCAAGTTGTTCTGATTGTAACAATAACAGACAGAAGATC 301
|||
Db 241 GAGTTGGGGAACATTGGCTGCAAGTTGTTCTGATTGTAACAATAACAGACAGAAGATC 300
QY 302 ACCTCCTGATGAGACCGATAGTCAAGTCCCGGGGGCCGTGACGGCGCAACCTATATC 361
|||
Db 301 ACCTCCTGATGAGACCGATAGTCAAGTCCCGGGGGCCGTGACGGCGCAACCTATATC 360

QY 362 CTGTGATGTGATCCAGATGCCCCCTAGCAGAGCAGAAACCAGACAGAGATTCTGGAGA 421
|||
Db 361 CTGTGATGTGATCCAGATGCCCCCTAGCAGAGCAGAAACCAGACAGAGATTCTGGAGA 420
QY 422 CATTGGCTGTAAAGATATCAAGGGCGCCGACTGAAGAAAGGGAAGATTCAAGGCCAG 481
|||
Db 421 CATTGGCTGTAAAGATATCAAGGGCGCCGACTGAAGAAAGGGAAGATTCAAGGCCAG 480
QY 482 GAGTTATCAGCCTACAGAGCTCCCTCCCAACGGCACAAGTGCTTCCATGCTACAG 541
|||
Db 481 GAGTTATCAGCCTACAGAGCTCCCTCCCAACGGCACAAGTGCTTCCATGCTACAG 540
QY 542 TTCTTTGTCTATCTTCAGGAAGGAAGATCATCTCTCTTCCCAAGGAACAAGACT 601
|||
Db 541 TTCTTTGTCTATCTTCAGGAAGGAAGATCATCTCTCTTCCCAAGGAACAAGACT 600
QY 602 CGAGGCTCTTGAAATGGAACAGATTCTGAACCGCTTCCACCTGGGGCAACCTGAAGCA 661
|||
Db 601 CGAGGCTCTTGAAATGGAACAGATTCTGAACCGCTTCCACCTGGGGCAACCTGAAGCA 660
QY 662 AGCACCAGTTCATGACCCAGAACTACAGAGTCAACCAACCTCCAGGCTCCAGAGGA 721
|||
Db 661 AGCACCAGTTCATGACCCAGAACTACAGAGTCAACCAACCTCCAGGCTCCAGAGGA 720
QY 722 AGGCGCAGAGCCCAAGCACTAAACCAAGGCTGAGATGCTGCTGCTGCTGCTGCTGCT 780
|||
Db 721 AGGCGCAGAGCCCAAGCACTAAACCAAGGCTGAGATGCTGCTGCTGCTGCTGCTGCTGCT 780
QY 781 TTGTCATCCGGGATGTGGCCACACTGCTACACCGACGATGTGGGTATGGAACCCC 840
|||
Db 781 TTGTCATCCGGGATGTGGCCACACTGCTACACCGACGATGTGGGTATGGAACCCC 840
QY 841 TCTGATACAGAACCCCTTCTTTTCCAAATTAAGAAAAA 880
|||
Db 841 TCTGATACAGAACCCCTTCTTTTCCAAATTAAGAAAAA 880

Search completed: February 22, 2005, 12:49:27
Job time : 1 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 22, 2005, 12:49:26 ; Search time 1 Seconds

(without alignments)
3.266 Million cell updates/sec

Title: US-10-035-958-60

Perfect score: 890

Sequence: 1 AAGTACTTGTGTCCGGGTGG.....TAAAAAAAATCATCAAA 890

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 0.5

Searched: 2 seqs, 1835 residues

Total number of hits satisfying chosen parameters: 4

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 2 summaries

Database : k035rnpb:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	865.7	97.3	932	1	US-10-003-152-1	Sequence 1, Appli
2	858.9	96.5	903	1	US-09-879-401-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1
US-10-003-152-1

; Sequence 1, Application US/10003152
; Publication No. US20020151494A1

; GENERAL INFORMATION:

; APPLICANT: Shimkets, Richard

; APPLICANT: Fernandes, Elma

; APPLICANT: Vernet, Corine

; APPLICANT: Yang, Meijia

; APPLICANT: Boldog, Ferenc

; APPLICANT: Herrmann, John

; TITLE OF INVENTION: No. US20020151494A1 Amino Acid Sequences for Human Semaphorin-1

; FILE REFERENCE: 15966-554 Cura-54 CON-S12

; CURRENT APPLICATION NUMBER: US/10/003,152

; PRIOR FILING DATE: 2001-11-02

; PRIOR APPLICATION NUMBER: 09/604,286

; PRIOR APPLICATION NUMBER: 60/140,584

; PRIOR FILING DATE: 1999-06-23

; NUMBER OF SEQ ID NOS: 49

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 1

; LENGTH: 932

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: CDS
; LOCATION: (113)..(793)
US-10-003-152-1

Query Match 97.3%; Score 865.7; DB 1; Length 932;
Best Local Similarity 99.0%; Pred. No. 0;
Matches 881; Conservative 0; Mismatches 8; Indels 1; Gaps 1;

QY	1	AAGTACTTGTGTCCGGGTGGACTGTGATTAGCTGGGAGCCCTGGAAGCTGCTGTCC	60
DB	25	AAGTACTTGTGTCCGGGTGGACTGTGATTAGCTGGGAGCCCTGGAAGCTGCTGTCC	84
QY	61	TTCTCCCTGTGCTTAACCAAGAGTGCCCATGGTTGGACAATGAGGCTGTGACAGCAGC	120
DB	85	TTCTCCCTGTGCTTAACCAAGAGTGCCCATGGTTGGACAATGAGGCTGTGACAGCAGC	144
QY	121	ACTGTTACTGGGTCTCATGATGCTGTGCTCACTGGAGACGAGGATGAGAACAGCCGTGTGC	180
DB	145	ACTGTTACTGGGTCTCATGATGCTGTGCTCACTGGAGACGAGGATGAGAACAGCCGTGTGC	204
QY	181	CCATGAGGCCCTCTTGGACGAGACACCCCTTTTGGCAGGGCCTGAACTTTCTAACC	240
DB	205	CCATGAGGCCCTCTTGGACGAGACACCCCTTTTGGCAGGGCCTGAACTTTCTAACC	264
QY	241	AGAGTTGGGGAACATTGCTGCAAGGTTGTTCTGATTGTAAACAATAACAGAGAAT	300
DB	265	AGAGTTGGGGAACATTGCTGCAAGGTTGTTCTGATTGTAAACAATAACAGAGAAT	324
QY	301	CACCTCTGATGATGAGCCGATAGTCAAGTCCCGGGGGCCGTGAGCCGCCAACCCTATAT	360
DB	325	CACCTCTGATGATGAGCCGATAGTCAAGTCCCGGGGGCCGTGAGCCGCCAACCCTATAT	384
QY	361	CCTGTGATGTGATCCAGATGCCCTTACAGACAGACAAACCAGACAGATTTCTGAG	420
DB	385	CCTGTGATGTGATCCAGATGCCCTTACAGACAGACAAACCAGACAGATTTCTGAG	444
QY	421	ACATTGGCTGTACAGATATCAAGGCGCCGACCTGAAGAAAGGAAAGATTCAAGGCCA	480
DB	445	ACATTGGCTGTGTACAGATATCAAGGCGCCGACCTGAAGAAAGGAAAGATTCAAGGCCA	504
QY	481	GGAGTTATACGCTTACAGAGCTCCCTCCCAACGGCACACAGTGGCTTCCATCGTACCA	540
DB	505	GGAGTTATACGCTTACAGAGCTCCCTCCCAACGGCACACAGTGGCTTCCATCGTACCA	564
QY	541	GTTCTTTGTCTATCTTCAAGAAAGAAAGTATCTCTCTCTTCCCAAGAAACAAAC	600
DB	565	GTTCTTTGTCTATCTTCAAGAAAGAAAGTATCTCTCTCTTCCCAAGAAACAAAC	624
QY	601	TCGAGGCTCTTGAATAATGACAGATTCTTGAACCGCTTCCACTGGGCGAACCCTGAAC	660
DB	625	TCGAGGCTCTTGAATAATGACAGATTCTTGAACCGCTTCCACTGGGCGAACCCTGAAC	684
QY	661	AAGCACCCAGTTCATGACCCAGAACTACAGACTCACCAACCCTCCAGGCTCCAGAG	720
DB	685	AAGCACCCAGTTCATGACCCAGAACTACAGACTCACCAACCCTCCAGGCTCCAGAG	744
QY	721	AAGGCGCAGCGAGCCCAAGCAC-AAAACAGGACAGATAGCTGCTGCTAGATAGCCGG	779
DB	745	AAGGCGCAGCGAGCCCAAGCACAAACAGGCGGAGATAGCTGCTGCTAGATAGCCGG	804
QY	780	CTTGCCATCCGGGCGATGTGGCCCACTGCTCAACCAAGGATGTGGGTATGAAACCC	839
DB	805	CTTGCCATCCGGGCGATGTGGCCCACTGCTCAACCAAGGATGTGGGTATGAAACCC	864
QY	840	CTCTGATACAGAACCCCTTTTTCACAAATTAAAAAAATCATCAA 889	
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RESULT 2

US-09-879-401-4

; Sequence 4, Application US/09879401

; Publication No. US20030119730A1

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QY 181 CCATGAGGCCCTCTTGGACGAGGACACCCCTCTTTTGGCCAGGCGCTTGAAGTTTCTACCC 240
Db |||||
QY 192 CCATGAGGCCCTCTTGGACGAGGACACCCCTCTTTTGGCCAGGCGCTTGAAGTTTCTACCC 251
Db |||||
QY 241 AGAGTTGGGGAACATTTGGCTGCAAGTTTCTCTGATTGTAACAACACTACAGACAGAAGAT 300
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QY 301 CACCTCTGGATGGAGCCGATAGTCAAGTTTCCGGGGCGCTGGACGGCGCAACCTATAT 360
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QY 312 CACCTCTGGATGGAGCCGATAGTCAAGTTTCCGGGGCGCTGGACGGCGCAACCTATAT 371
Db |||||
QY 361 CCTGGTGTGGTGGATCCAGATGCCCCCTAGCAGACAGAACCCAGACAGAGATTCTGGAG 420
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QY 372 CCTGGTGTGGTGGATCCAGATGCCCCCTAGCAGACAGAACCCAGACAGAGATTCTGGAG 431
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QY 421 ACATTGGCTGTGAACAGATATCAAGGGCGCGACCTGAAGAAAGGGAAGATTTCAGGGCCA 480
Db |||||
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Db |||||
QY 481 GGAGTTATCAGCTACAGGCTCCCTCCCGACCGGCACACAGTGGCTTCCATCGTACCA 540
Db |||||
QY 492 GGAGTTATCAGCTACAGGCTCCCTCCCGACCGGCACACAGTGGCTTCCATCGTACCA 551
Db |||||
QY 541 GTTCTTTGTCTATCTTCAGGAAGGAAAGTCTCTCTCTCTTCCCAAGGAAACAAAC 600
Db |||||
QY 552 GTTCTTTGTCTATCTTCAGGAAGGAAAGTCTCTCTCTCTTCCCAAGGAAACAAAC 611
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QY 601 TCGAGGCTCTTGGAAATGGACAGATTCTTGAACCGCTTCCACCTGGCGGAACCTGAAGC 660
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QY 612 TCGAGGCTCTTGGAAATGGACAGATTCTTGAACCGCTTCCACCTGGCGGAACCTGAAGC 671
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QY 661 AAGCACCAGTTTCATGACCCAGAACTACAGGACTCACCAACCTCCAGGCTCCAGAGG 720
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QY 672 AAGCACCAGTTTCATGACCCAGAACTACAGGACTCACCAACCTCCAGGCTCCAGAGG 731
Db |||||
QY 721 AAGGGCCAGCGAGCCCAAGCAC-AAAACAGGCGAGAGATAGCTGCCTGTAGATAGCGG 779
Db |||||
QY 732 AAGGGCCAGCGAGCCCAAGCACAAACAGGCGGAGATAGCTGCCTGTAGATAGCGG 791
Db |||||
QY 780 CTTTGCATCCGGCATGTGGCCACACTGCTCAACCCAGCATGTGGGTATGGAACCCC 839
Db |||||
QY 792 CTTTGCATCCGGCATGTGGCCACACTGCTCAACCCAGCATGTGGGTATGGAACCCC 851
Db |||||
QY 840 CTCTGGATACAGAACCCCTCTTTTCCAAATTAAAAAATAATCATCA 889
Db |||||
QY 852 CTCTGGATACAGAACCCCTCTTTTCCAAATTAAAAAATAATCATCA 901
Db |||||

RESULT 2
ID AAA15582
XX AAA15582 standard; cDNA, 903 BP.
AC AAA15582;
XX
DT 01-AUG-2000 (first entry)
XX
DE Human phospholipid binding protein 2, PLBP2 gene.
XX
KW Human; phospholipid binding protein; PLBP2; foetal development disorder;
KW reproduction disorder; cell proliferation disorder; immune response;
KW autoimmune disorder; AIDS; infertility; cytostatic; immunosuppressive;
KW gene therapy; hereditary neuropathy;
KW phosphatidylethanolamine binding protein D1; PE-BP D1; ss.
XX Homo sapiens.

Key
CS8 Location/Qualifiers
88. .771
/*tag= a
/product= "Human PLBP2"

PN US6063767-A.
XX 16-MAY-2000.
PF 09-DEC-1998; 98US-00208718.
XX
PR 28-OCT-1997; 97US-00958820.
XX
PA (INCY-) INCYTE PHARM INC.
XX
PI Corley NC, Shah P, Lal P, Hillman JL;
XX
DR WPI; 2000-375529/32.
XX P-PSDB; AAY94263.
PT New purified phospholipid binding proteins 1 and 2 useful for diagnosing,
PT treating or preventing diseases disorders associated with fetal
XX development, reproduction, cell proliferation, and the immune response.
PS Example 5; Fig 2; 37pp; English.
XX
CC The present sequence is the phospholipid binding protein 2 (PLBP2) gene.
CC This gene is expressed in lung, prostate and heart tissues. Also, the
CC protein is expressed in foetal tumour tissues. PLBP2 may be used for the
CC diagnosis, prevention, or treatment of disorders associated with foetal
CC development (e.g. hereditary neuropathies), reproduction (e.g.
CC infertility), cell proliferation (e.g. cancers), and the immune response
CC (AIDS). PLBP2 antibodies may also be developed for potential drug
CC screening or to quantitate PLBP2 gene expression in biopsied tissues. The
CC PLBP2 gene may be administered for gene therapy of disorders associated
CC with PLBP2. PLBP2 has high homology with the phosphatidylethanolamine
CC binding protein D1, PE-BP D1, of Onchocerca volvulus. PE-BP D1 is thought
CC to play a role in transport or signal mechanisms between membranes and
CC the cytoplasm
XX
SQ Sequence 903 BP; 222 A; 251 C; 242 G; 188 T; 0 U; 0 Other;

Query Match 96.5%; Score 858.9; DB 1; Length 903;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 873; Conservative 0; Mismatches 6; Indels 1; Gaps 1;
QY 2 AGTACTTGTGTCCGGTGTGGACTGGATTAGCTCGGAGCCCTGGAAGCTGCCTGTCT 61
Db |||||
QY 1 AGTACTTGTGTCCGGTGTGGACTGGATTAGCTCGGAGCCCTGGAAGCTGCCTGTCT 60
Db |||||
QY 62 TCTCCCTGTGCTTAACACAGAGGTGCCATGGTTGGACAATGAGGCTGGTCAACAGCA 121
Db |||||
QY 61 TCTCCCTGTGCTTAACACAGAGGTGCCATGGTTGGACAATGAGGCTGGTCAACAGCA 120
Db |||||
QY 122 CTGTTACTGGGTCTCATGATGGTGTGCTCACTGGAGACGAGGATGAGAACCCCGTGTGCC 181
Db |||||
QY 121 CTGTTACTGGGTCTCATGATGGTGTGCTCACTGGAGACGAGGATGAGAACCCCGTGTGCC 180
Db |||||
QY 182 CATGAGGCCCTCTTGGACGAGGACACCTCTTTTCCAGGCGCTTGAAGTTTCTACCCA 241
Db |||||
QY 181 CATGAGGCCCTCTTGGACGAGGACACCTCTTTTCCAGGCGCTTGAAGTTTCTACCCA 240
Db |||||
QY 242 GAGTTGGGGAACATTGGCTGCAAGGTTGTTCTCTGATTGTAACTACAGACAGAAGATC 301
Db |||||
QY 241 GAGTTGGGGAACATTGGCTGCAAGGTTGTTCTCTGATTGTAACTACAGACAGAAGATC 300
Db |||||
QY 302 ACCTCTGGATGGAGCCGATAGTCAAGTTTCCGGGGCGCTGGACGGCGCAACCTATATC 361
Db |||||
QY 301 ACCTCTGGATGGAGCCGATAGTCAAGTTTCCGGGGCGCTGGACGGCGCAACCTATATC 360
Db |||||
QY 362 CTGGTGTGGTGGATCCAGATGCCCCCTAGCAGACAGAACCCAGACAGAGATTCTGGAGA 421
Db |||||
QY 361 CTGGTGTGGTGGATCCAGATGCCCCCTAGCAGACAGAACCCAGACAGAGATTCTGGAGA 420
Db |||||
QY 422 CATTGGCTGGTAAACAGATATCAAGGGCGCGACCTGAAGAAAGGGAAGATTTCAGGGCCAG 481
Db |||||
QY 421 CATTGGCTGGTAAACAGATATCAAGGGCGCGACCTGAAGAAAGGGAAGATTTCAGGGCCAG 480
Db |||||

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